

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P649307

Luminaire Tested: **GLAN-SA3D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18049.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

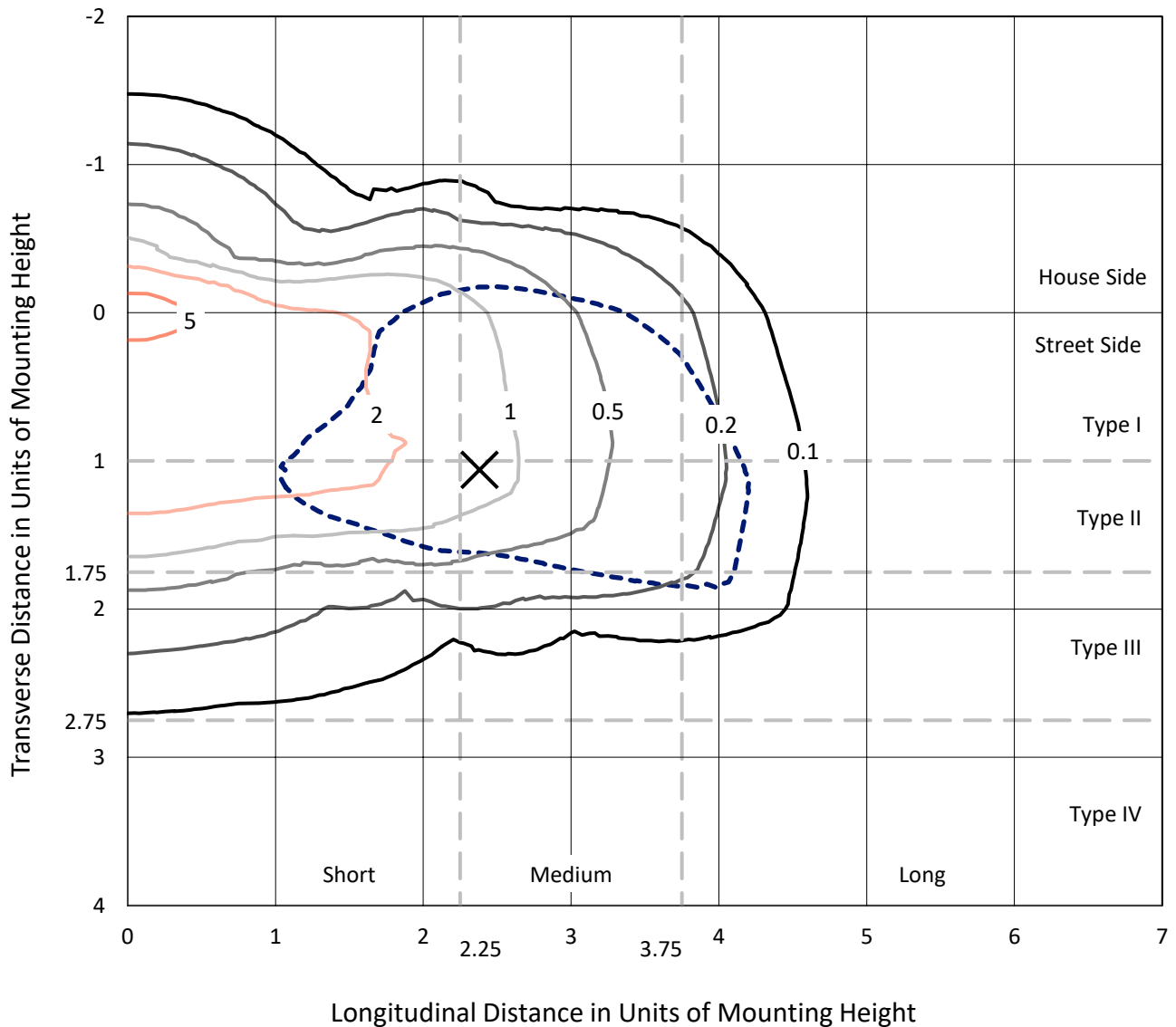
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

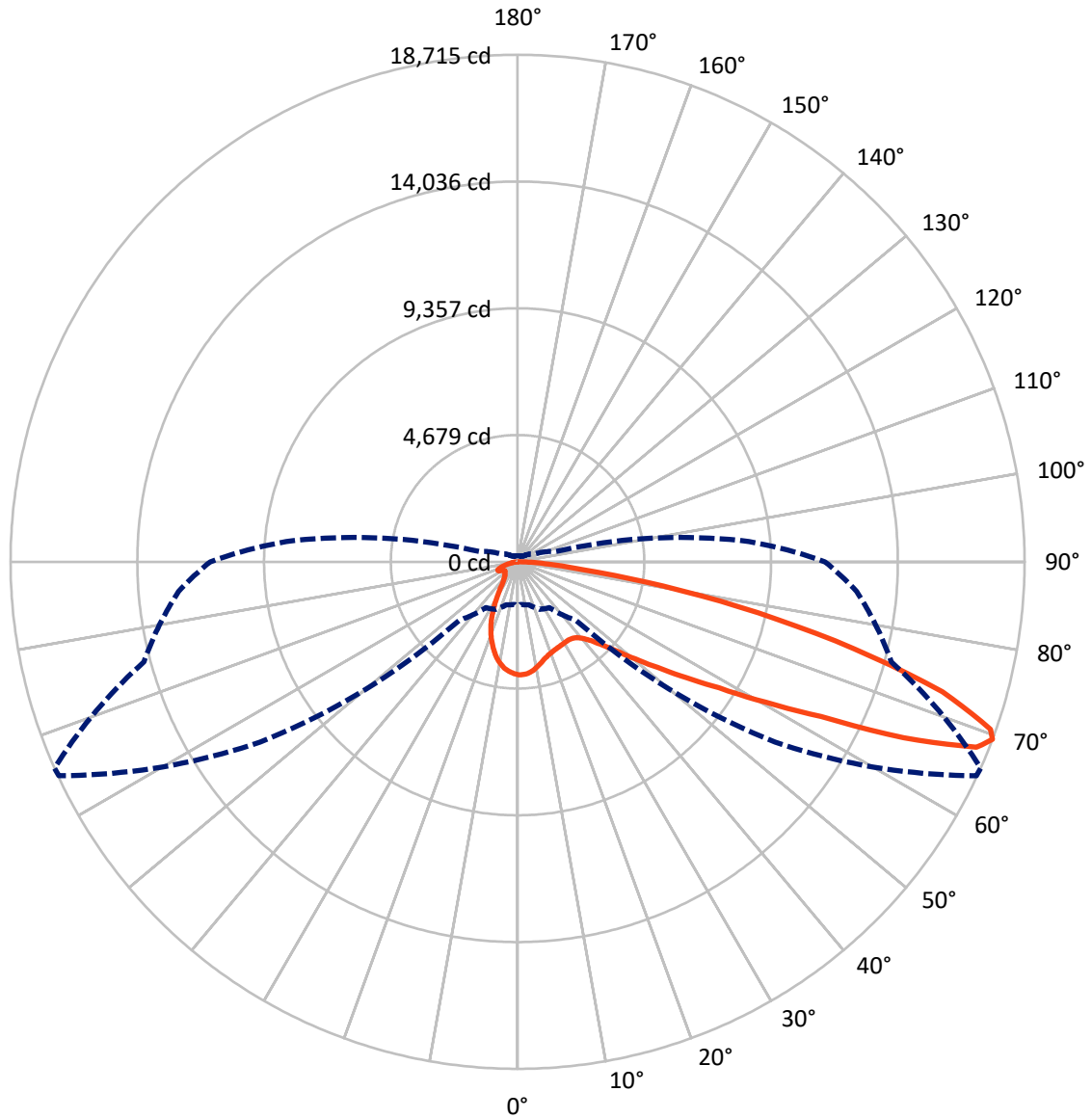
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3394.5 | 0.0 | 3394.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 14655.2 | 0.0 | 14655.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 18049.7 | 0.0 | 18049.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.0 | 2.0 |
| 10°-20° | 858.5 | 4.8 |
| 20°-30° | 1168.8 | 6.5 |
| 30°-40° | 1570.6 | 8.7 |
| 40°-50° | 2345.2 | 13.0 |
| 50°-60° | 3730.4 | 20.7 |
| 60°-70° | 4588.2 | 25.4 |
| 70°-80° | 2985.3 | 16.5 |
| 80°-90° | 440.8 | 2.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 18049.7 | 100.0 |
| 0°-180° | 18049.7 | 100.0 |

Coefficient of Utilization

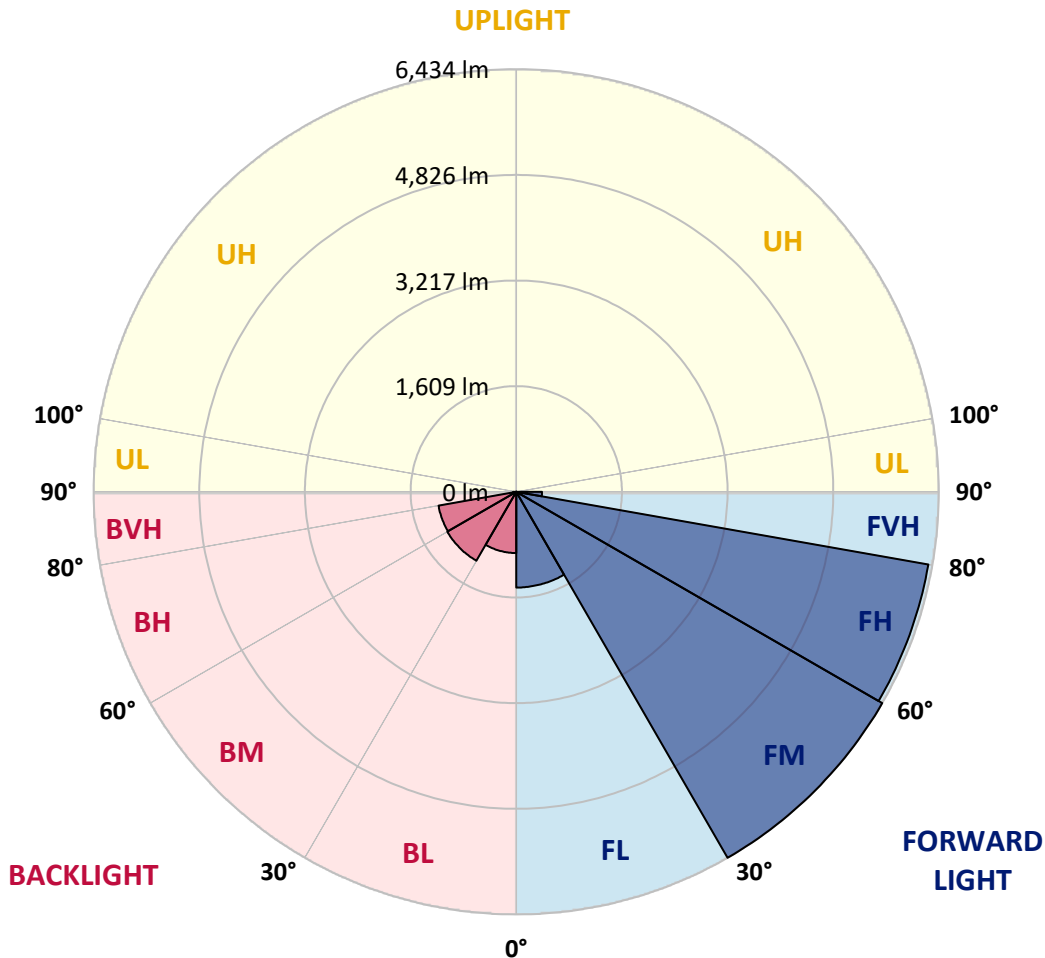


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1457.5 | 8.1 | | | |
| FM (30°-60°) | 6434.2 | 35.6 | | | |
| FH (60°-80°) | 6371.6 | 35.3 | | | G3/7500 |
| FVH (80°-90°) | 391.9 | 2.2 | | | G3/500 |
| BL (0°-30°) | 931.8 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1212.0 | 6.7 | B2/2500 | | |
| BH (60°-80°) | 1201.8 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 48.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 |
| 2.5° | 4022.3 | 4038.2 | 4056.3 | 4076.2 | 4114.2 | 4135.2 | 4150.2 | 4167.2 | 4169.2 | 4178.2 | 4171.2 |
| 5° | 3725.4 | 3744.4 | 3771.3 | 3809.4 | 3866.3 | 3955.2 | 4047.2 | 4122.2 | 4131.2 | 4173.2 | 4185.1 |
| 7.5° | 3477.5 | 3488.5 | 3510.5 | 3571.4 | 3652.4 | 3751.4 | 3885.3 | 4037.2 | 4059.2 | 4159.2 | 4194.1 |
| 10° | 3275.6 | 3286.6 | 3312.6 | 3375.5 | 3455.5 | 3579.4 | 3726.4 | 3926.3 | 3944.3 | 4116.2 | 4196.2 |
| 12.5° | 3124.6 | 3134.7 | 3162.6 | 3224.6 | 3316.6 | 3432.5 | 3594.4 | 3806.3 | 3832.3 | 4059.2 | 4177.1 |
| 15° | 3009.7 | 3028.6 | 3051.7 | 3102.6 | 3199.6 | 3311.5 | 3468.5 | 3696.4 | 3717.4 | 3999.3 | 4164.2 |
| 17.5° | 2960.7 | 2969.7 | 2985.7 | 3032.7 | 3103.7 | 3213.6 | 3371.5 | 3610.4 | 3635.4 | 3957.3 | 4161.2 |
| 20° | 2962.7 | 2971.7 | 2974.7 | 3000.7 | 3051.7 | 3146.6 | 3302.5 | 3542.4 | 3572.4 | 3920.3 | 4166.2 |
| 22.5° | 3030.7 | 3031.7 | 3020.7 | 3011.7 | 3031.7 | 3110.6 | 3253.6 | 3491.5 | 3526.5 | 3904.3 | 4170.2 |
| 25° | 3135.6 | 3153.6 | 3137.6 | 3095.7 | 3058.6 | 3096.7 | 3234.6 | 3463.5 | 3496.5 | 3881.3 | 4165.2 |
| 27.5° | 3305.6 | 3308.6 | 3295.6 | 3238.6 | 3142.6 | 3114.6 | 3226.6 | 3442.5 | 3470.5 | 3864.3 | 4140.2 |
| 30° | 3533.4 | 3524.4 | 3512.5 | 3449.5 | 3298.5 | 3183.6 | 3243.6 | 3423.5 | 3452.5 | 3839.4 | 4110.2 |
| 32.5° | 3764.4 | 3792.4 | 3781.3 | 3707.3 | 3511.4 | 3317.6 | 3298.5 | 3421.5 | 3445.5 | 3820.3 | 4077.2 |
| 35° | 4009.3 | 4022.3 | 4074.2 | 4036.2 | 3835.3 | 3534.5 | 3401.5 | 3452.5 | 3471.5 | 3821.4 | 4054.2 |
| 37.5° | 4201.2 | 4236.2 | 4358.1 | 4391.1 | 4202.2 | 3821.4 | 3568.4 | 3540.5 | 3548.5 | 3870.3 | 4063.2 |
| 40° | 4433.0 | 4493.0 | 4650.0 | 4784.9 | 4661.0 | 4194.1 | 3852.3 | 3703.4 | 3713.4 | 3988.3 | 4122.2 |
| 42.5° | 4727.0 | 4768.9 | 4979.8 | 5162.7 | 5142.7 | 4687.0 | 4196.2 | 3970.3 | 3975.3 | 4223.2 | 4287.2 |
| 45° | 5070.8 | 5130.8 | 5367.6 | 5642.5 | 5689.5 | 5244.7 | 4693.0 | 4374.1 | 4371.1 | 4588.0 | 4595.0 |
| 47.5° | 5510.6 | 5547.6 | 5782.5 | 6082.3 | 6272.3 | 5945.4 | 5295.7 | 4953.8 | 4921.9 | 5119.8 | 5062.8 |
| 50° | 5915.4 | 5973.4 | 6151.3 | 6479.2 | 6951.9 | 6766.1 | 6088.4 | 5705.5 | 5630.6 | 5815.5 | 5719.5 |
| 52.5° | 6085.3 | 6146.3 | 6296.3 | 6703.1 | 7534.7 | 7827.6 | 7094.9 | 6602.1 | 6477.2 | 6619.1 | 6584.1 |
| 55° | 5790.4 | 5869.4 | 6009.4 | 6504.1 | 7790.6 | 9052.0 | 8452.3 | 7638.6 | 7547.7 | 7486.7 | 7496.8 |
| 57.5° | 4997.8 | 5072.8 | 5261.7 | 5807.4 | 7484.7 | 9940.7 | 10390.5 | 8971.1 | 8776.2 | 8495.3 | 8543.2 |
| 60° | 3804.4 | 3851.3 | 3949.3 | 4554.0 | 6578.1 | 10171.6 | 12591.5 | 10655.4 | 10531.4 | 9499.8 | 9533.8 |
| 62.5° | 2701.8 | 2754.8 | 2822.8 | 3124.6 | 4815.9 | 9520.8 | 14314.7 | 13007.4 | 12564.5 | 10540.4 | 10507.4 |
| 65° | 2194.0 | 2158.0 | 2240.0 | 2380.9 | 2825.8 | 7378.8 | 14702.5 | 16271.9 | 15662.2 | 11910.8 | 11453.0 |
| 67.5° | 1804.2 | 1766.2 | 1847.2 | 2098.0 | 2149.1 | 4283.2 | 13305.2 | 18390.9 | 18269.0 | 13401.1 | 12413.6 |
| 69° | 1597.3 | 1577.3 | 1648.3 | 1934.2 | 2063.1 | 3041.6 | 11590.9 | 18685.8 | 18714.8 | 14279.8 | 12561.5 |
| 70° | 1439.4 | 1447.4 | 1516.4 | 1851.2 | 2024.1 | 2507.9 | 9906.7 | 18279.1 | 18524.9 | 14718.6 | 12401.6 |
| 72.5° | 1059.6 | 1076.5 | 1172.5 | 1533.3 | 1987.1 | 2128.0 | 5895.4 | 15966.0 | 16400.9 | 14744.6 | 11345.0 |
| 75° | 740.6 | 732.7 | 817.6 | 1154.5 | 1877.2 | 2109.1 | 3462.5 | 12347.6 | 12840.4 | 12744.4 | 9532.9 |
| 77.5° | 484.8 | 497.8 | 565.7 | 815.7 | 1579.3 | 2093.1 | 2257.0 | 8760.2 | 9080.1 | 8523.3 | 5638.5 |
| 80° | 341.9 | 340.8 | 378.8 | 556.8 | 1171.5 | 2011.1 | 1848.2 | 5521.6 | 5440.6 | 3349.5 | 1672.3 |
| 82.5° | 195.9 | 209.9 | 253.9 | 391.8 | 783.6 | 1770.2 | 1700.3 | 2640.8 | 2410.9 | 954.6 | 564.8 |
| 85° | 108.9 | 113.9 | 151.0 | 236.9 | 457.8 | 1333.4 | 1484.3 | 1201.5 | 1133.5 | 398.9 | 242.9 |
| 87.5° | 35.0 | 38.0 | 63.0 | 120.0 | 207.9 | 629.7 | 840.6 | 554.8 | 511.8 | 143.9 | 98.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 | 4168.1 |
| 2.5° | 4174.2 | 4186.2 | 4154.2 | 4123.2 | 4095.2 | 4056.3 | 4021.3 | 3992.3 | 3972.2 | 3969.3 | 3959.2 |
| 5° | 4188.2 | 4189.2 | 4128.2 | 4046.2 | 3966.3 | 3878.3 | 3787.4 | 3722.4 | 3661.4 | 3627.4 | 3610.4 |
| 7.5° | 4198.1 | 4189.2 | 4079.2 | 3946.2 | 3792.4 | 3632.4 | 3472.4 | 3344.5 | 3245.6 | 3206.6 | 3221.6 |
| 10° | 4194.1 | 4166.2 | 4005.3 | 3792.4 | 3568.4 | 3329.6 | 3099.7 | 2919.7 | 2754.8 | 2669.9 | 2671.8 |
| 12.5° | 4172.2 | 4126.2 | 3895.3 | 3619.4 | 3290.6 | 2970.7 | 2618.8 | 2375.9 | 2185.0 | 2072.1 | 2037.1 |
| 15° | 4153.2 | 4073.2 | 3766.4 | 3384.5 | 2975.7 | 2518.9 | 2090.1 | 1790.3 | 1630.3 | 1541.3 | 1540.3 |
| 17.5° | 4133.2 | 4022.3 | 3625.4 | 3135.6 | 2613.9 | 2026.1 | 1576.3 | 1347.4 | 1272.5 | 1281.5 | 1266.4 |
| 20° | 4112.2 | 3962.3 | 3478.5 | 2858.7 | 2173.1 | 1511.3 | 1180.5 | 1087.5 | 1108.5 | 1149.5 | 1155.5 |
| 22.5° | 4088.2 | 3898.3 | 3320.5 | 2553.9 | 1709.3 | 1137.5 | 957.6 | 943.6 | 997.5 | 1061.5 | 1070.5 |
| 25° | 4051.2 | 3818.3 | 3121.7 | 2235.0 | 1318.4 | 916.6 | 838.7 | 848.6 | 901.6 | 955.6 | 961.6 |
| 27.5° | 3999.3 | 3719.4 | 2920.7 | 1837.2 | 990.6 | 786.7 | 766.6 | 779.6 | 805.6 | 838.7 | 846.7 |
| 30° | 3929.3 | 3607.4 | 2689.8 | 1493.3 | 793.6 | 721.7 | 713.7 | 720.7 | 735.7 | 749.6 | 753.6 |
| 32.5° | 3859.3 | 3499.5 | 2456.9 | 1143.5 | 707.7 | 678.7 | 670.7 | 670.7 | 670.7 | 672.7 | 673.7 |
| 35° | 3794.3 | 3397.5 | 2207.0 | 890.6 | 662.7 | 644.7 | 633.8 | 621.7 | 619.7 | 612.7 | 612.7 |
| 37.5° | 3758.3 | 3304.6 | 1941.1 | 745.7 | 629.7 | 616.8 | 601.7 | 581.8 | 570.7 | 571.7 | 569.8 |
| 40° | 3765.4 | 3243.6 | 1699.3 | 663.7 | 602.8 | 588.7 | 565.7 | 542.8 | 535.7 | 535.7 | 533.8 |
| 42.5° | 3844.3 | 3223.6 | 1467.3 | 620.8 | 576.8 | 560.8 | 531.7 | 510.8 | 506.8 | 505.8 | 507.8 |
| 45° | 4026.3 | 3272.5 | 1259.5 | 592.7 | 554.8 | 530.8 | 501.7 | 482.8 | 478.8 | 478.8 | 477.8 |
| 47.5° | 4381.1 | 3431.5 | 1110.5 | 574.7 | 538.8 | 507.8 | 477.8 | 458.8 | 451.8 | 449.8 | 449.8 |
| 50° | 4932.8 | 3776.3 | 999.6 | 558.7 | 518.7 | 486.8 | 455.8 | 433.8 | 422.8 | 421.8 | 420.8 |
| 52.5° | 5699.5 | 4314.1 | 956.6 | 546.8 | 496.8 | 464.8 | 430.8 | 409.8 | 395.8 | 392.8 | 390.8 |
| 55° | 6596.1 | 5064.8 | 1015.6 | 537.8 | 473.8 | 439.8 | 404.8 | 382.8 | 369.8 | 363.9 | 362.8 |
| 57.5° | 7634.6 | 5966.4 | 1239.5 | 525.8 | 452.8 | 412.8 | 378.8 | 356.8 | 342.9 | 335.8 | 333.9 |
| 60° | 8567.3 | 6893.0 | 1630.3 | 518.7 | 434.8 | 383.8 | 348.8 | 328.9 | 315.9 | 308.9 | 307.9 |
| 62.5° | 9591.8 | 7776.6 | 2097.1 | 537.8 | 426.8 | 355.9 | 320.9 | 302.9 | 291.9 | 284.9 | 284.9 |
| 65° | 10686.3 | 8661.2 | 2405.9 | 601.7 | 438.8 | 333.9 | 290.9 | 275.9 | 265.9 | 260.9 | 259.9 |
| 67.5° | 11424.0 | 8967.1 | 1982.2 | 667.7 | 468.8 | 309.8 | 261.9 | 249.9 | 243.9 | 238.9 | 238.9 |
| 69° | 11344.0 | 8580.3 | 1462.3 | 684.7 | 477.8 | 297.9 | 245.9 | 236.9 | 228.9 | 226.9 | 224.9 |
| 70° | 11091.2 | 8139.4 | 1225.5 | 673.7 | 470.8 | 286.9 | 235.9 | 224.9 | 217.9 | 215.9 | 214.9 |
| 72.5° | 9878.7 | 7058.9 | 912.6 | 585.8 | 400.8 | 248.9 | 208.9 | 198.9 | 192.9 | 190.0 | 190.0 |
| 75° | 8207.4 | 5769.5 | 712.7 | 465.8 | 313.8 | 209.9 | 178.9 | 170.9 | 165.9 | 164.0 | 162.9 |
| 77.5° | 4600.0 | 3221.6 | 511.8 | 364.9 | 237.9 | 169.9 | 149.9 | 143.0 | 138.0 | 135.9 | 135.9 |
| 80° | 1281.5 | 920.6 | 300.9 | 240.9 | 161.9 | 129.0 | 118.9 | 113.9 | 107.0 | 101.9 | 104.9 |
| 82.5° | 482.8 | 398.9 | 171.9 | 144.9 | 103.0 | 86.0 | 83.0 | 78.9 | 76.0 | 69.0 | 69.0 |
| 85° | 234.9 | 193.9 | 109.9 | 77.0 | 57.0 | 44.9 | 43.0 | 41.0 | 39.0 | 34.0 | 35.0 |
| 87.5° | 81.0 | 86.0 | 48.0 | 28.0 | 17.0 | 11.0 | 9.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)